

## United States Environmental Protection Agency Region 9 Laboratory

1337 S. 46th Street Building 201 Richmond, CA 94804

Date: 3/31/2017

Subject: Analytical Testing Results - Project R17E01

SDG: 17076E

From: Peter Husby, Director

**EPA Region 9 Laboratory** 

EMD-3-1

To: Janice Chan

**Enforcement Division, Air Section** 

ENF-2-1

Attached are the results from the analysis of samples from the **Catalytic Converter Analysis FY2017** project. These data have been reviewed in accordance with EPA Region 9 Laboratory policy.

A full documentation package for these data, including raw data and sample custody documentation, is on file at the EPA Region 9 Laboratory. If you would like to request additional review and/or validation of the data, please contact Eugenia McNaughton at the Region 9 Quality Assurance Office.

If you have any questions, please ask for Peter Husby, the Lab Project Manager at (510)412-2300.

Electronic CC: Matt Salazar, ENF-2-1

Andrew Zelling, Nathan Dancher, ENF-2-1 Elfego Felix, Kingsley Adeduro, ENF-2-1

#### Analyses included in this report:

Platinum Group Metals by XRF



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1337 S. 46th Street, Building 201, Richmond, CA 94804 Phone:(510) 412-2300 Fax:(510) 412-2302

Project Manager: Janice Chan Enforcement Division, Air Section SDG: 17076E

Project Number: R17E01 75 Hawthorne Street Reported: 03/31/17 12:46

Project: Catalytic Converter Analysis FY2017 San Francisco CA, 94105

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
LWGPCML05HA054568	1703050-01	Solid	03/16/17 00:00	03/17/17 14:15



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Sample Ro	esults											
Analyte		Reanalysis / Extract R		Qualifiers / Comments	Quantitation Limit	Units	Batch	1	Prepared	Analyzed	Meth	od
Lab ID:	1703050-01								Sol	id - Sample	ed: 03/	16/17 00:00
Sample ID: Platinum	LWGPCML05HA054568	3	ND	A-01, J, U	160	mg/kg	B17C1	123	XRF Ana 03/29/17		inum C	Froup Metals
Palladium			2,500	A-01, J	40	"	"		"	"	XRF	
Rhodium			280	A-01, J	40	"	"		"	"	XRF	
Quality Co	ontrol											
Analyte		Result		Qualifiers / Comments	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits		RPD RPD Limit

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD Limit
Batch B17C123 General Biology - Platinum Metals by XRF	ı Group				,	(RF Analysi	s of Platinu		Analyzed: 03/29/17 ls - Quality Contro
Blank (B17C123-BLK1)					1	itti ittiaiysi	9 01 1 III III II	ш отоар мен	is Quanty contro
Platinum	ND	U	160	mg/kg					
Palladium	ND	U	40	"					
Rhodium	ND	U	40	"					
Blank (B17C123-BLK2)									
Platinum	ND	U	160	mg/kg					
Palladium	ND	U	40	"					
Rhodium	ND	U	40	"					
Reference (B17C123-SRM1)									
Platinum	770			mg/kg	697		111	85-115	
Palladium	290			"	326		89	85-115	
Rhodium	52			"	51.2		102	85-115	
Reference (B17C123-SRM2)									
Platinum	1,100			mg/kg	1130		101	85-115	
Palladium	230			"	233		99	85-115	
Rhodium	140			"	135		101	85-115	
Reference (B17C123-SRM3)									
Platinum	1,700			mg/kg	1780		97	85-115	
Palladium	280			"	279		100	85-115	
Rhodium	350			"	338		105	85-115	
Reference (B17C123-SRM4)									
Platinum	750			mg/kg	697		108	85-115	
Palladium	290			"	326		88	85-115	
Rhodium	52			"	51.2		102	85-115	
Reference (B17C123-SRM5)									
Platinum	1,200			mg/kg	1130		105	85-115	
Palladium	230			"	233		100	85-115	
Rhodium	140			"	135		106	85-115	
Reference (B17C123-SRM6)									
Platinum	1,700			mg/kg	1780		98	85-115	
Palladium	280			"	279		102	85-115	
Rhodium	360			"	338		107	85-115	



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Project Manager: Janice Chan Enforcement Division, Air Section SDG: 17076E

Project Number:R17E0175 Hawthorne StreetReported:03/31/17 12:46Project:Catalytic Converter Analysis FY2017San Francisco CA, 94105

### **Qualifiers and Comments**

J The reported result for this analyte should be considered an estimated value.

A-01 Insufficient sample for separate washcoat analysis.

U Not Detected

NR Not Reported

RE1, RE2, etc: Result is from a sample re-analysis.

VIN Number	Engine Family	SAMPLE ID	Catalyst Type	Substrate Len.	Substrate Dia.	Substrate Vol.	Substrate Area	Cells	CPSI
				(cm)	(cm)	(cm³)	(in²)	#	
LWGPCML05HA054568	HHSNX.196A21	1703050-01	Honeycomb	3.51	3.01	24.9	1.10	323	294

VIN Number	Engine Family	SAMPLE ID	Pt	Pd	Rh	Ratio	Active Material
			mg/Kg	mg/Kg	mg/Kg	Pt:Pd:Rh	Loading (g/ft3)*
LWGPCML05HA054568	HHSNX.196A21	1703050- 01***	0	2493	285	0:9:1	59

<sup>\*\*\*</sup>A-01 and J flag: The amount of extracted washcoat for Sample 1703050-01 was outstandingly less than the amount necessary for analysis.

As a result, the washcoat powder was analyzed with the substrate grindings.



## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

OFFICE OF ENFORCEMENT AND COMPLIANCE ASSURANCE

JANICE Chan		of <u>US EPA</u> Business/Agency	hereby cer	rtify I
Name				
removed the following	item; exhaut	systen . I	marked the item	with:
VIN or ESN: LNGPC	ML05HAD	54568	:• 	
The item is from Entry	No.: 9AR - 02	72858-2 Date Remov	ed: <u>3/16/17</u>	
From a: 2017	Hisun Motor	Corp C7202 Model	14	
Year	Make	Model	,	
Allegedly covered by U	ISEPA Engine Fa	mily: HHSNX, 196	A21	·
	_x =	Engine Family		2
I further certify on	116/17	I secured the described ite	m prior to shippir	ıg it.
	CHAI	N OF CUSTODY		
Released By:	Date and Time	Received By:	Date and Time	Remarks
Name Vellun	3/16/17 1845	Name Janice Cha	3/16/12 1345	
Organization	Seal Intact?	Organization	Seal Intact?	
CBP	Y,N, Comment	USERA	Y,N, Comment	
Signature		Signature		
T Vallery		gn Co		
T. Vallery	7/1/40	Name Day of A	3/11/2	
To Vallery  Janice Chan	3/16/17	Name Rose Gul	3/10/7	
Name  Janice Chan  Organization	3/16/17 Seal Intact? Y,N, Comment		Seal Intact? Y,N, Comment	
Name  Janice Chan  Organization  US TA		Name Rose Gul		
Name  Janice Chan  Organization	Y,N, Comment	Name Rose Gall Organization Signature	Y,N, Comment	
Name  Janice Chan  Organization  US TA	Y,N, Comment  14-23  Seal Intact?	Name ROSE (Salve) Organization Signature	Y,N, Comment	
Name  Jane Chan  Organization  US GA  Signature  Name	14.23	Name Organization Signature Name TUNN Organization	3/17/17  Seal Intact?	
Name  Organization  Organization  Name  Organization	Y,N, Comment  14-23  Seal Intact?	Name Organization Signature  Name TUNN Organization Parameters  Name TUNN Organization	Y,N, Comment  3/17/17  Seal Intact? Y,N, Comment	

Version: July 2015

Signature

Name

Organization

Signature

Signature

Organization

Signature

Seal Intact?

Y,N, Comment

Name

Seal Intact? Y,N, Comment

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Cooler/Box/Env	_ of _

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U.S. Environmental Prote- Region 9 Richmond Labo		/					7 South 46th Stree hmond, CA 94804
•			nple Rece	-			
Project No: 2/7Fc	Wor	k Order No	o(s): 17031	070	Date:	3,17,17 <sub>by</sub>	SD
CUSTODY SEALS Check if applies:   Ex		s 🗆 Intern	al Seals □ Hand	I Delivered		□ Yes □ No	N/A- None
TEMPERATURE Check if applies:	<u>~c</u>	Within A	cceptable Ra	inge		□ Yes □No	Ambient O
<ul><li>□ Provided Temp Blank</li><li>□ Previously Frozen</li></ul>			0°C □ Still cooli d Ice □ Delivery		oday & iced)		
SAMPLE CONTAIN  If not intact, was volume Check if applies:   Bo	e recoverat	ole for anal	<i>ysis?</i> ı Cap broken or lo	oose □ Othe	·	Yes □ No □ Yes □ No	N/A
CHAIN OF CUSTO COC complete and co Check if applies:			nsistency resolve	ed □ Follow-ı	up needed see	Yes □ No	□ <b>N/A</b>
Check if applies:   Pre	eliminary Re	esults 🗆 F			ap nocucu (occ	A les like	□ N/A
Within hold times   All shipping and samp			nted for			X Yes □ No	
PRESERVATION / Check if applies: San Ana Preserved and/or filter Preserved samples (n Preservation/measured	mple Recei alyst to filter red sample on-VOA vi	ving to pre r and/or pre es correcti als) meas	eserve y identified	ьн		Yes □ No	
	Sa	mple Rec	eiving Preservat	tion and/or p	H Adjustments	•	
Sample ID	Initial pH	Pres.	Date/time Pres. added	Adjusted	pH after 16-	Date/time of	Rechecke d by
FOLLOW-UP / COM	MMENTS	(OC	not sixne	d in	Pelinsid 12	1.00	back, if needed)